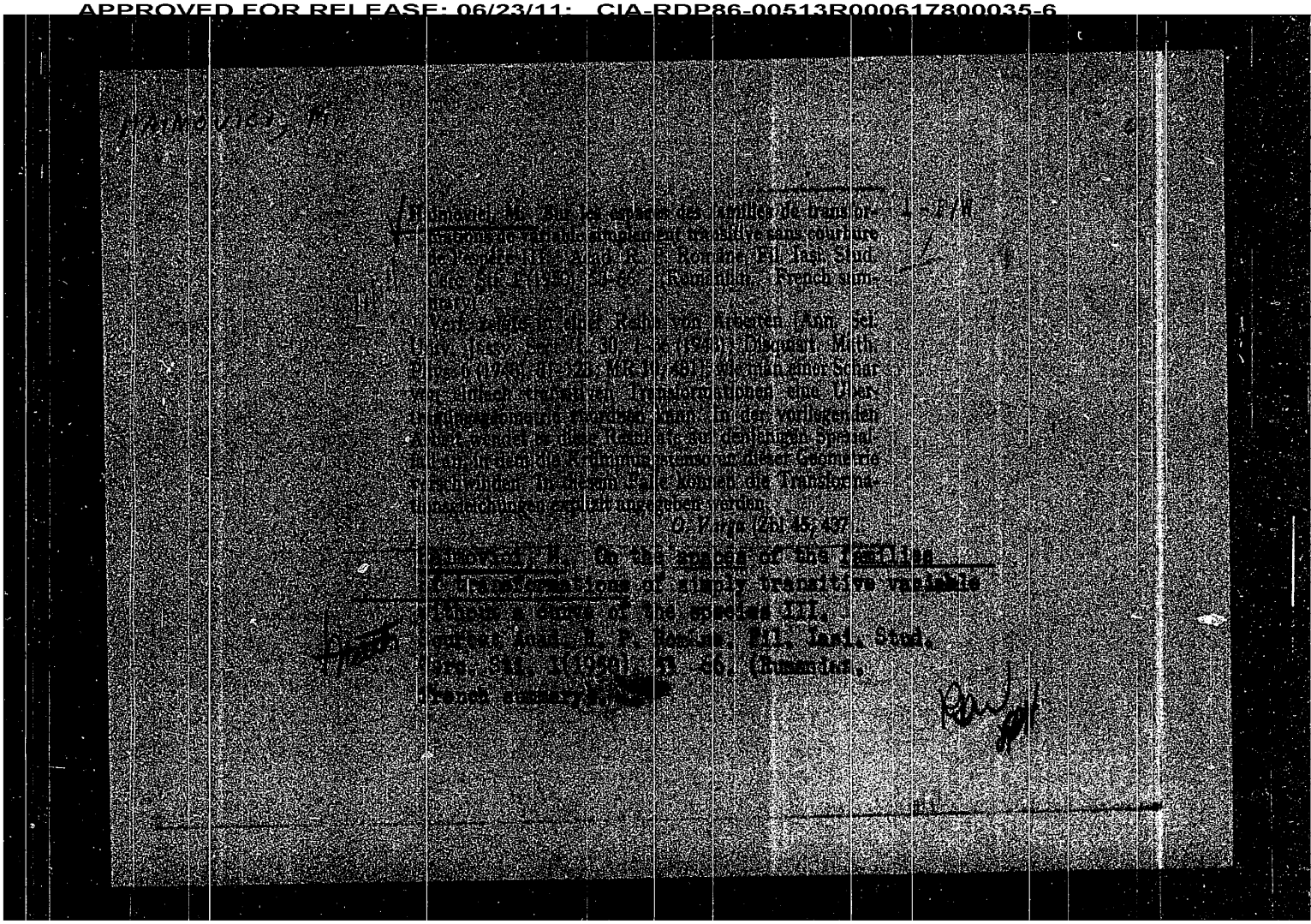
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, MENDEL.

Haimovici, Mendel. Sur les familles de transformations ponctuelles à un paramètre transitives. Acad. Roum. Bull. Sect. Sci. 28, no. 3, 5 pp. (1945).

This is a preliminary note. If a set of transformations $X^i = F^i(x^1, \ldots, x^n; a_1, \ldots, a_r)$ in n variables with r parameters is given, in the X_k of X_1, X_2 a linear connection can be uniquely fixed by giving some invariant conditions. The quantities of curvature and torsion can be computed. The set is a group if and only if the curvature vanishes. In this case the connection can be brought back to the connection of Cartan and Schouten in the group manifold. A hint is given as to the sets admitting a transitive group in themselves.

J. A. Schouten (Bpe).

Source: Mathematical Reviews, 1948, Vol. 9, No. 1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

SZILAGYI, P.; IONESCU, D.V., prof. dr.; IACOB, C., acad. prof.; HAIMOVICI, M., acad. prof.; CALUGAREANU, G., acad. prof.

About solving the Dirichlet's problem on the system of equations of eliptic type, second order, with partial derivatives. Studia Univ B-B S. Math-Phys 9 no.2:140-142 '64.

1. "Babes-Bolyai" University, Cluj (for Ionescu, Calugareanu). 2. Universit of Bucharest (for Iacob). 3. "A.I.Cuza", Iasi (for Haimovici).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

CREANGA, I.; HAIMOVICI, Corina

On the matrix equation XA = YX. Pt. 2. Studii mat Iasi 14 no.1:7-10 '63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, Corina

Pseudonilpotent elements. Studii mat Iasi 13 no.2:229-234 '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

CREANGA, Ion; HAIMOVICI, Corina

Concerning the matrix equation XA = YX (I).
Studii mat Iasi 13 no.1:7-14 '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, Corina

Explicit form of elementary functions in the algebras of antiquaternion, zemiquaternions, and semiantiquaternions. Studii mat Iasi 12 no.2:213-218 '61.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

6,3000

3,809
S/044/62/000/002/017/092
C111/C333

AUTHOR: Haimovici, C.

TITLE: Elementary functions in the algebra of quaternions

PERIODICAL: Referativnyy zhurnal, Matematika, no. 2, 1962, 40, abstract 2B10. ("An. ştiinţ. Univ. Iaşi", 1960, Sec. 1, 6, no. 2, 241-244)

TEXT: Let q be an element of the quaternion algebra, Q the matrix which corresponds to it in the (left) regular representation of the algebra, f(z) an elementary function of the complex variable z. Then $\Sigma(Q) = p(Q)$ is a polynomial of this matrix. The author puts by definition $f(q) = p(q)$ and obtains concrete expressions for the power, exponential, logarithmic and trigonometric functions of the elements q of the quaternion algebra.

[Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

CLIMESCU, Al., MAIMOVICI, A.

Introduction of some chapters of mathematics necessary in the economy, into all grades of the teaching program. Gaz mat fiz 70 no.3:99-100 Mr '65.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HALMOVICI, Adolf (Iasi)

Systems of total integrable differential equations which generalize the Pfaffian systems. Studia Univ B-B G. Math-Phys. 7 no.1:81-94 '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, Adolf, prof. univ.

Euclid. Gaz mat B 14 no.4:193-198 Ap '63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, A., porf. univ. (Iasi)

About the modernization of the analytic programs of mathematics in the field of general education. Gaz mat fiz 14 no.5:246-262 My '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, Adolf, prof.

Mathematical problems in the theory of automatic control. Gaz mat fiz 14 no.1:1-19 Ja '62.

1. University, Iasi.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, A. (Iasi)

A generalization of the Cauchy-Kowalewsky problem. Mat lapok 13 no.1/2:201 '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, Adolf

Connection of Cartan's spaces. Studii mat Iasi 13 no.1:129-149 '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, Adolf

On a system of equations with partial derivatives.
Comunicarile AR 12 no.2:195-200 F '62.

1. Comunicare prezentata de M. Haimovici, membru corespondent al Academiei R.P.R.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

ILLEGIBLE

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICE, Adolf, prof.

On some transformations between the spaces with affine connection. Studii mat Iasi 12 no.2:347-353 '61.

1. Membru al Comitetului de redactie, "Studii si cercetari stiintifice, Matematica" (Iasi)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

NAUMOVICI, A.

Spaces with angular metrics. III. p. 131.

STUDII SI CERCETARI STIINTIFICE. MATEMATICA. Iasi. Rumania. Vol. 9, no. 2, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, A.

2

Haimovici, A. Introduction à l'étude mathématique des associations biologiques. Gaz. Mat. Fiz. Ser. A. 4 (1958), 193–204. (Romanian. French and Russian summaries)

The author gives a good expository account of results obtained by V. Volterra [Leçons sur la théorie mathématique de la lutte pour la vie, Gauthier-Villars, Paris, 1931; Variazioni e fluttuazioni del numero d'individui in specie animali conviventi, Ferrari, Venice, 1927; Les associations biologiques au point de vue mathématique, Hermann, Paris, 1935]. He uses Volterra's results to discuss the case of two species, one herbivorous, and the other carnivorous, which have the same habitat.

R. G. Stanton (Waterloo, Ont.)

MAI

1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

Some Invariants of Parallel Transport in a Space of Affine Connections
(Differential Geometry) \b

2
1-F\W

6118:

Halmovici, Adolf. Sur quelques invariants au transport parallèle, dans les espaces à connexion affine. Acad. R. P. Romîne. Fil. Iaşi. Stud. Cerc. Şti. Mat. 8 (1957), no. 2, 135–149. (Romanian. Russian and French summaries)

The following problem is treated in the present paper: To determine functions of the components of a tensor in a space with affine connection X^n which are invariant under the parallel transport of the tensor. This is a generalization of a problem treated by the author in previous papers [see Rend. Mat. e Appl. (5) **15** (1956), 385–452; MR 20#3579].

The problem reduces to a system of n partial differential equations of the first order and the Poisson brackets obtained from it. This system is linear with coefficients which are linear in the components of the tensor and can be studied in the same way as in the paper mentioned above. Some of the results obtained are:

If X^n admits r invariants attached to a tensor of order m then it admits $r'>r$ invariants attached to a tensor of order $m'>m$.

Every X^n admits at least $n^2(n-1)$ invariants attached to a tensor of order 3. These invariants are found explicitly in the case $n=2$.

Every X^2 admits one invariant attached to a co- or contravariant tensor of order two, and two invariants attached to a mixed tensor of order two. All these invariants are given explicitly, together with their geometric interpretation.

The paper concludes with a study of those X^n which admit 1) the invariant function $\varphi(x^t)\det\|g_{rs}\|$; 2) the invariant functions $\varphi(x^t)g_{rs}$. *R. Blum* (Saskatoon, Sask.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

Problems Soluable by the Method of Separation of Variables

4783:

Haimovici, Adolf. Sur certains problèmes aux limites résolvables par la méthode de la séparation des variables. An. Şti. Univ. "Al. I. Cuza" Iaşi. Secţ. I (N.S.) 3 (1957), 45–51. (Russian and Romanian summaries)

The author applies the method of the separation of variables to linear problems of the type $Au=A_1u-A_2u=0$. Two cases are treated. 1) A_1 is a completely continuous self-adjoint linear operator which is applicable to a space of continuous functions $v(x)$, $x\in\Omega_1 CR^{n_1}$. A_2 is an analytic differential operator of the Cauchy-Kowalevsky type operating on analytic functions $w(y,t)$, $y\in\Omega_2 CR^{n_2}$, $t\in ICR$. 2) A_1 and A_2 are completely continuous self adjoint transformations operating on continuous functions defined in Ω_1 and Ω_2, respectively. Solutions are obtained in infinite series of products as usual. In case 1), if $\lambda=0$ is not a characteristic value of A_1, a unique solution $u(x,y,t)$ is found with standard boundary conditions. The non-homogeneous equation is also solved. In case 2), the equation has a solution only if the spectra of A_1 and A_2 have non-void intersection. The solutions are then obtained from the manifold generated by the functions $v(x)\cdot w(y)$, where v and w satisfy $A_1v=\lambda v$, $A_2w=\lambda w$.

E. K. Lorch (New York, N.Y.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

ILLEGIBLE

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, A.

HAIMOVICI, A. Concept of Tensors. p. 67.

Vol. 7, no. 2, Feb. 1955
GAZETA MATEMATICA SI FIZICA. SERIA A.
SCIENCE
Bucuresti

So: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAI), LC, Vol. 4. no. 9, Sept. 1955, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

Hamoui, Adel F.

3001

There follows an algebraic study of a certain subsystem of S which leads, if the existence of only one invariant is assumed, to 8 different cases. For each of these cases S is integrated and the fundamental invariant given in explicit form. The same is done if the existence of two, three or four invariants is assumed; this results in five, three or one cases respectively. Finally the author shows that these spaces admit in general a field of parallel directions and that they include as a particular case the Riemannian spaces.

R. Blum (Saskatoon, Sask.).

2/2

RBW

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HALMOVICI, ADOLF

Halmovici, Adolf. Sur quelques invariants dans les espaces à connexion affine. Acad. R. P. Romîne. Bul. Sti. Sect. Sti. Mat. Fiz. 7 (1955), 595–622. (Romanian. Russian and French summaries)

In two previous papers [Com. Acad. R. P. Romîne 1 (1951), 157–163; Acad. R. P. Romîne Fil. Iaşi Stud. Acad. Cerc. Sti. 2 (1951), 66–82; MR 17, 408] the author has studied spaces with affine connection for which a function f involving a point x^i and two directions X^i, Y^i remains invariant under parallel transport. In particular the case of two dimensions has been treated. In the present paper the author considers the case of three dimensions.

The problem leads to the consideration of a system of linear partial differential equations S whose coefficients are linear in X^i and Y^i. Because f depends upon the nine variables (x^i, X^i, Y^i) it is concluded that S will have to contain at most eight linearly independent equations in order to admit one invariant, at most seven in order to admit two invariants and so on. The author limits himself to the case when the linear relations between the left-hand sides of the equations of S are independent of (X^i, Y^i).

1 - F/W

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, Adolf

Haimovici, Adolf. Espaces à connexion affine qui admettent la notion d'aire. Acad. R. P. Romîne. Fil. Iaşi. Studii Cerc. St. 6 (1955), 123–133. (Romanian. Russian and French summaries)

In a space with affine connection one can attach to two vectors X and Y an invariant which has the character of an area (S), by the formula

$$S^2=a_{\alpha\beta\gamma\delta}(X^\alpha Y^\beta-X^\beta Y^\alpha)(X^\gamma Y^\delta-X^\delta Y^\gamma),$$

where $a_{\alpha\beta\gamma\delta}=a_{\gamma\delta\alpha\beta}=-a_{\beta\alpha\gamma\delta}$ is the "areolar tensor". The condition that S should be invariant under a parallel transport of X and Y leads to a system of linear partial differential equations of the first order in $a_{\alpha\beta\gamma\delta}$.

In the present paper two particular cases for $a_{\alpha\beta\gamma\delta}$ are discussed: 1) $a_{\alpha\beta\gamma\delta}=g_{\alpha[\gamma}g_{\delta]\beta}$ where $g_{\alpha\beta}$ is skew symmetric in α,β. For $n=2$ the space is equiaffine, a result found earlier by the author. For $n>2$ conditions for the $g_{\alpha\beta}$ are established. It is then shown how the coefficients of the affine connection can be determined. The area of a surface region depends, in this case, only upon the bounding curve. 2) There exist a coordinate system in which $a_{\alpha\beta\gamma\delta}=0$ ($\alpha=\beta$ or $\gamma=\delta$) and $a_{\alpha\beta\gamma\delta}\neq 0$ (otherwise). It is shown that, in this case, the space is Riemannian. *R. Blum.*

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

Observations of the Systems of Linear Equations With Partial Derivatives of the First Order With Linear Coefficients

Haimovici, Adolf. Observations sur ies systèmes d'équations linéaires aux dérivées partielles du premier ordre à coefficients linéaires. Rev. Univ. "Al. I. Cuza" Inst. Politehn. Iaşi 2 (1955), 5-23. (Romanian. Russian and French summaries)

2
1-F\W

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

MAIMOVICI A.

"Geometry of a Monge equation of a special type" [illegible], 17; "Journal on science issued by the Iasi Branch, Rumanian Academy; with French [illegible] in mathematics. Quarterly". (STUDII SI CERCETARI STIINTIFICE, Vol. 5, no. 1-2, Jan.-June 1954, Filiala Iasi)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

1/2 + w a, i, c, h, Holdič

1 - X/II

Radinović, Adolf. Sur quelques invariants attachés à un couple de vecteurs d'un espace à connexion affine à deux dimensions. Acad. Repub. Pop. Romîne. Bul. Şti. Sect. Şti. Mat.-Fiz. 6, 31–8 (1954). (Romanian, Russian and French summaries)

The A_1 under consideration admit, under parallel transformation, an invariant belonging to any couple of vectors X^i, Y^i attached to a point. The classification depends on the rank of the two matrices

$$R = \begin{Vmatrix} R^1_{11k} & R^1_{12k} & R^1_{21k} & R^1_{22k} \\ R^2_{11k} & R^2_{12k} & R^2_{21k} & R^2_{22k} \\ R^3_{11k} & R^3_{12k} & R^3_{21k} & R^3_{22k} \end{Vmatrix}$$

where the commas indicate covariant differentiation, and

$$A = \begin{Vmatrix} a_1^1 & b_1^1 & a_2^1 & a_3^1 & a_1^1 = R^1_{11} \\ b_1^1 & b_2^1 & b_2^1 & b_3^1 & b_1^1 = R^1_{12} \\ c_1^1 & b_1^1 & c_2^1 & c_3^1 & c_1^1 = a_1^1 b_m - a_m b_1^m \\ d_1^1 & d_2^1 & d_2^1 & d_3^1 & d_1^1 = a_1^1 c_m - a_m c_1^m \\ e_1^1 & e_2^1 & e_2^1 & e_3^1 & e_1^1 = b_1^1 c_m - b_m c_1^m \\ \cdots & \cdots & \cdots & \cdots & \cdots \\ a_{1,n}^1 & a_{1,n}^2 & a_{1,n}^3 & a_{1,n}^4 & a_{1,n}^1 = R^1_{11,n} \end{Vmatrix}$$

The invariant $X^1Y^2 - X^2Y^1$ appears when the rank of R and A is three, except when a certain relation between the R_{ij} exists. The cases in which R and A have rank <3 are also analyzed.

D. J. Struik (Cambridge, Mass.)

LFH

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

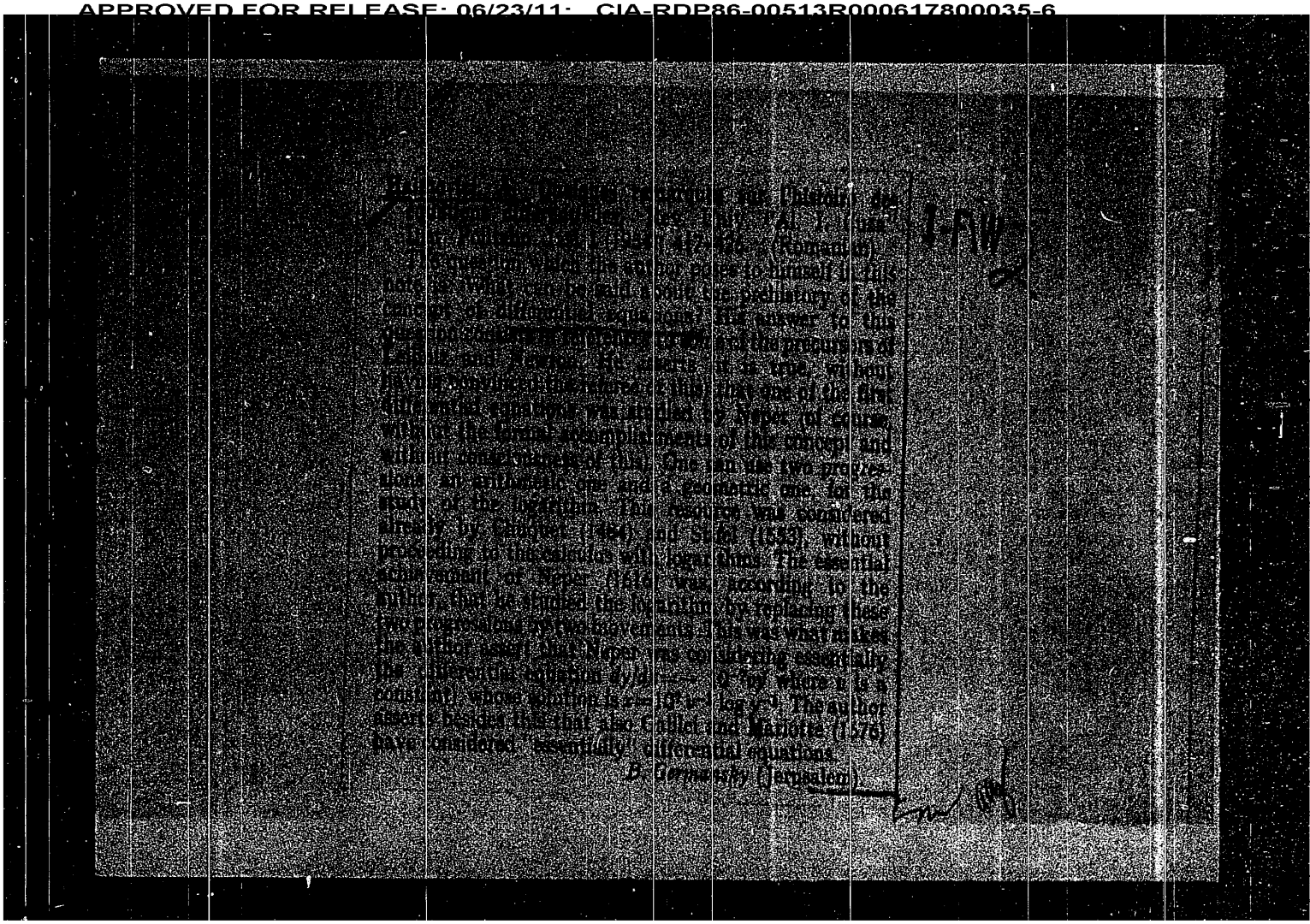
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, Adolf

"Contributions a la mecanique du point de masse variable." Revue de Matematiques et de Physique, Vol. 2, 1954

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

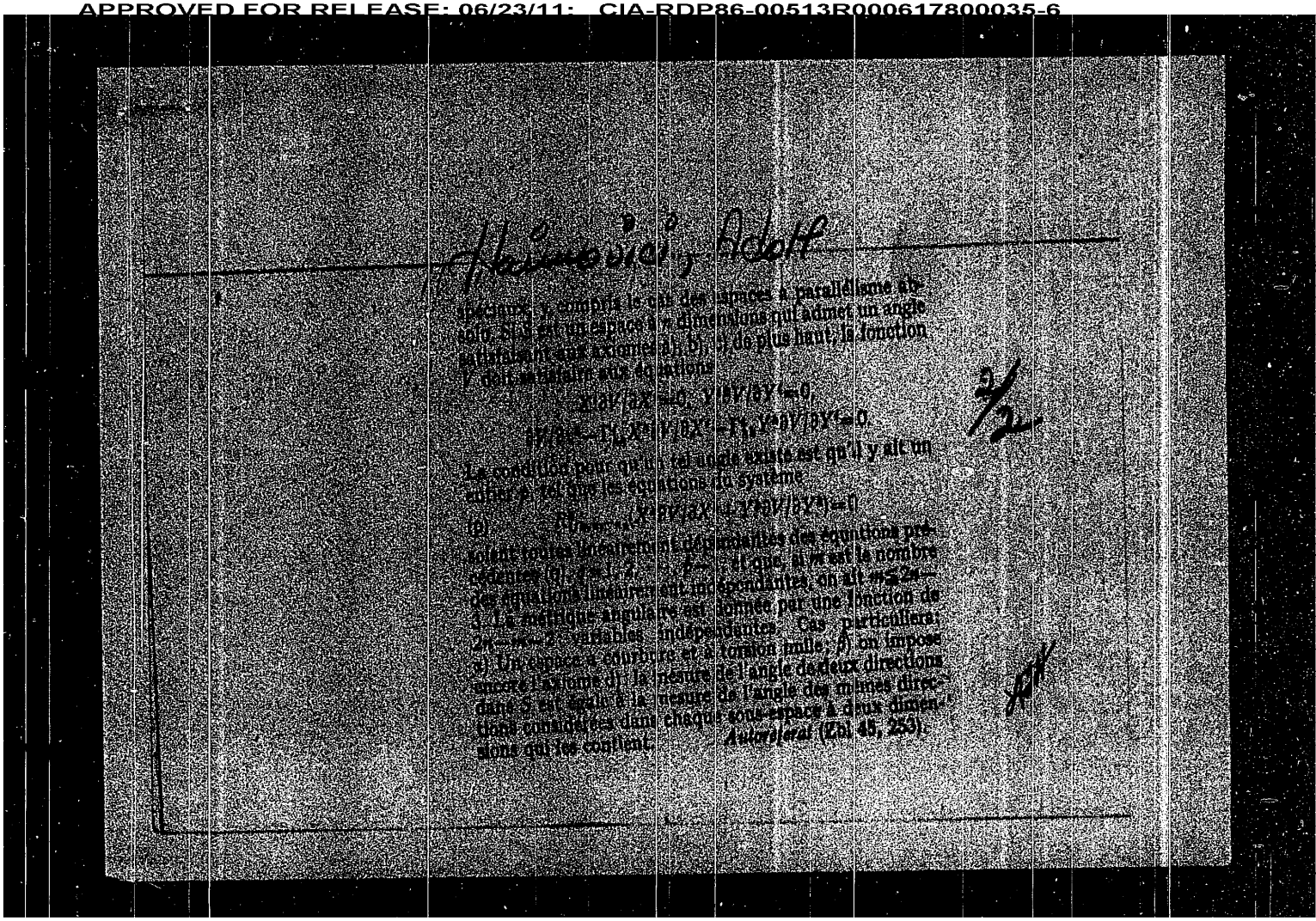
HAIMOVICI, A.

"Contributions to the merchanics of a point of variable mass. p. 61." BUIETIN STIINTIFIC. Vol. 4, No. 1, Jan./Mar. 1952. Bucuresti, Rumania.

SO: Monthly List of East European Accessions, L.C.Vol. 2, No.11, 1953. Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



espaces V_n y compris le cas des espaces à parallélisme absolu. Si V est un espace à n dimensions qui admet un angle satisfaisant aux axiomes 1), 2), 3), 4), de plus haut, la fonction F doit satisfaire aux équations

$$x_i \partial F/\partial x^i = 0, \quad y^i \partial F/\partial y^i = 0,$$

$$\partial F/\partial x^i = -T_{ik} X^k \partial F/\partial z^i - T_{ik} Y^k \partial F/\partial y^i, \quad \partial F/\partial y^i = T_{ik} X^k \partial F/\partial z^i + T_{ik} Y^k \partial F/\partial y^i.$$

La condition pour qu'un tel angle existe est qu'il y ait un entier p, $0 \leq p \leq n$, tel que les équations du système

$$y^i \partial F/\partial x^i + x^i \partial F/\partial y^i = 0 \quad (i, k = 1, 2, \ldots, n)$$

(6) $\partial F/\partial x^i = -T_{ik} X^k \partial F/\partial z^i - T_{ik} Y^k \partial F/\partial y^i$

soient toutes linéairement indépendantes et que, si r est le nombre des équations linéairement indépendantes, on ait $r = 2n - p$. La métrique angulaire est alors donnée par une fonction de $2n - p - 2$ variables indépendantes. Cas particuliers: $p = 0$, $r = 2n$, V_n espace à courbure constante et à fonction ω nulle; $p = 1$, $r = 2n - 1$, on impose encore à la forme ω la mesure dans S est égale à la mesure dans S' si les deux domaines considérés dans S et S' contiennent chaque fois le même nombre de droites qui les coupent.

Hessenberg, Gerhard

Sur les espaces à parallélisme absolu. Math. Ann. 87, 252–268 (1922).

Soit V_n un espace à n dimensions qui admet un angle satisfaisant aux axiomes 1), 2), 3), 4) de plus haut; la fonction F doit satisfaire aux équations

$$x_i \partial F/\partial x^i = 0, \quad y^i \partial F/\partial y^i = 0,$$

$$\partial F/\partial x^i = -T_{ik} X^k \partial F/\partial z^i - T_{ik} Y^k \partial F/\partial y^i, \quad \partial F/\partial y^i = T_{ik} X^k \partial F/\partial z^i + T_{ik} Y^k \partial F/\partial y^i.$$

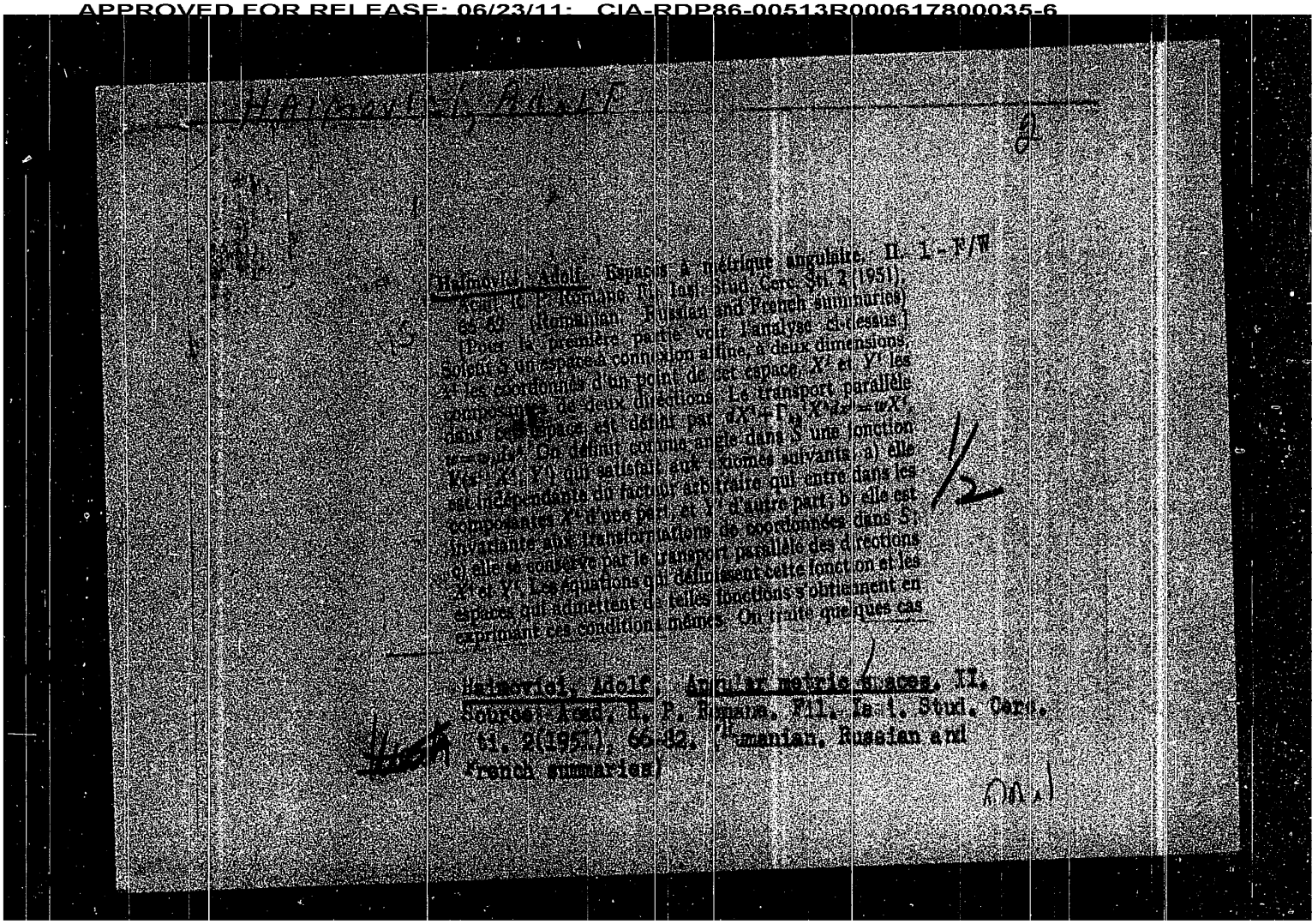
La condition pour qu'un tel angle existe est qu'il y ait un entier p, $0 \leq p \leq n$, tel que les équations du système

$$y^i \partial F/\partial x^i + x^i \partial F/\partial y^i + 2 T_{ik} Y^k \partial F/\partial z^i = 0$$

soient toutes linéairement indépendantes et que, si r est le nombre des équations linéairement indépendantes, on ait $r = 2n - p$. La métrique angulaire est alors donnée par une fonction de $2n - p - 2$ variables indépendantes. Cas particuliers: $p = 0$, $r = 2n$, V_n espace à courbure constante et à fonction ω nulle; $p = 1$, $r = 2n - 1$, on impose encore à la forme ω la condition que la mesure de l'angle de deux directions dans S est égale à la mesure de l'angle des mêmes directions dans S' si les deux domaines considérés dans S et S' contiennent chaque fois le même nombre de droites qui les coupent. — Cas particuliers étudiés par *Autonne* (Zbl 45, 253).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



Hellinger, Adolf. Espaces à métrique angulaire. II. 1-F/W
Acad. R. P. Romîne. Fil. Lab. Stud. Cerc. Sti. 2(1951), 66-82. (Romanian. Russian and French summaries)

Dans la première partie de cette note l'auteur considère un espace à connexion affine, à deux dimensions, dont les coordonnées d'un point de l'espace sont X^1 et Y^1 les composantes de deux directions infiniment voisines. La métrique dans cet espace est définie par $ds^2 = g_{ik}\,dX^i\,dX^k$, $i,k = 1,2$. On définit comme angle de deux directions $w = \arctg \frac{X^1 Y^2 - X^2 Y^1}{X^1 X^2 + Y^1 Y^2}$. Le transport parallèle $dX^i + \Gamma^i_{kl} X^k dx^l = wX^i$, $dY^i + \Gamma^i_{kl} Y^k dx^l = wY^i$, qui satisfait aux conditions suivantes: a) elle est indépendante du facteur arbitraire qui entre dans les composantes X^i d'une part, et Y^i d'autre part; b) elle est invariante aux transformations de coordonnées dans S_1; c) elle se conserve par le transport parallèle des directions X^i et Y^i. Les équations qui définissent cette fonction et les espaces qui admettent de telles fonctions s'obtiennent en exprimant ces conditions mêmes. On traite quelques cas particuliers.

Hellinger, Adolf. Angular metric spaces. II.
Source: Acad. R. P. Romîne. Fil. Lab. Stud. Cerc. Sti. 2(1951), 66-82. (Romanian. Russian and French summaries)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

H 9 : Mo Vici : AD

Hsiung, Ad. Espaces à métrique angulaire. Com. Acad. R. P. Romîne 1 (1951), 157–163. (Romanian, Russian and French summaries)

Given is a two-dimensional S_2 with connection given by $dX^i+\Gamma_{jk}{}^iX^jdx^k=X^id\varphi$, of which the angle between two vectors is given by a function $V(x^i, X^i, Y^i)$ which is additive, invariant under parallel displacement, homogeneous of degree zero in the two vectors and invariant under a coordinate transformation. If $R_{121}{}^1=R_{121}{}^2, R_{122}{}^1=R_{122}{}^2=0$, then

$$V=l\left(\frac{a_1X^1+a_2X^2}{a_3X^1+a_4X^2}\right)-l\left(\frac{a_1Y^1+a_2Y^2}{a_3Y^1+a_4Y^2}\right)$$

and absolute parallelism exists. If these relations are not fulfilled, the search leads to the types

$$V=\frac{K}{R_{121}{}^1(a_2-a_1)}\log\frac{X^1Y^2-a_1X^1Y^2-a_2X^2Y^1+a_1a_2X^1Y^1}{X^1Y^2-a_1X^1Y^2-a_1X^1Y^2+a_1a_2X^1Y^1},$$

$$(R_{121}{}^2a^2+(R_{121}{}^1-R_{122}{}^2)a-R_{121}{}^1=0,$$

$$\cos V=\frac{aX^1Y^1+\frac{1}{2}b(X^2Y^1+X^1Y^2)+cX^2Y^2}{\sqrt{[aX^1)^2+bX^1X^2+c(X^2)^2][a(Y^1)^2+bY^1Y^2+c(Y^2)^2]}}.$$

D. J. Struik (Cambridge, Mass.).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

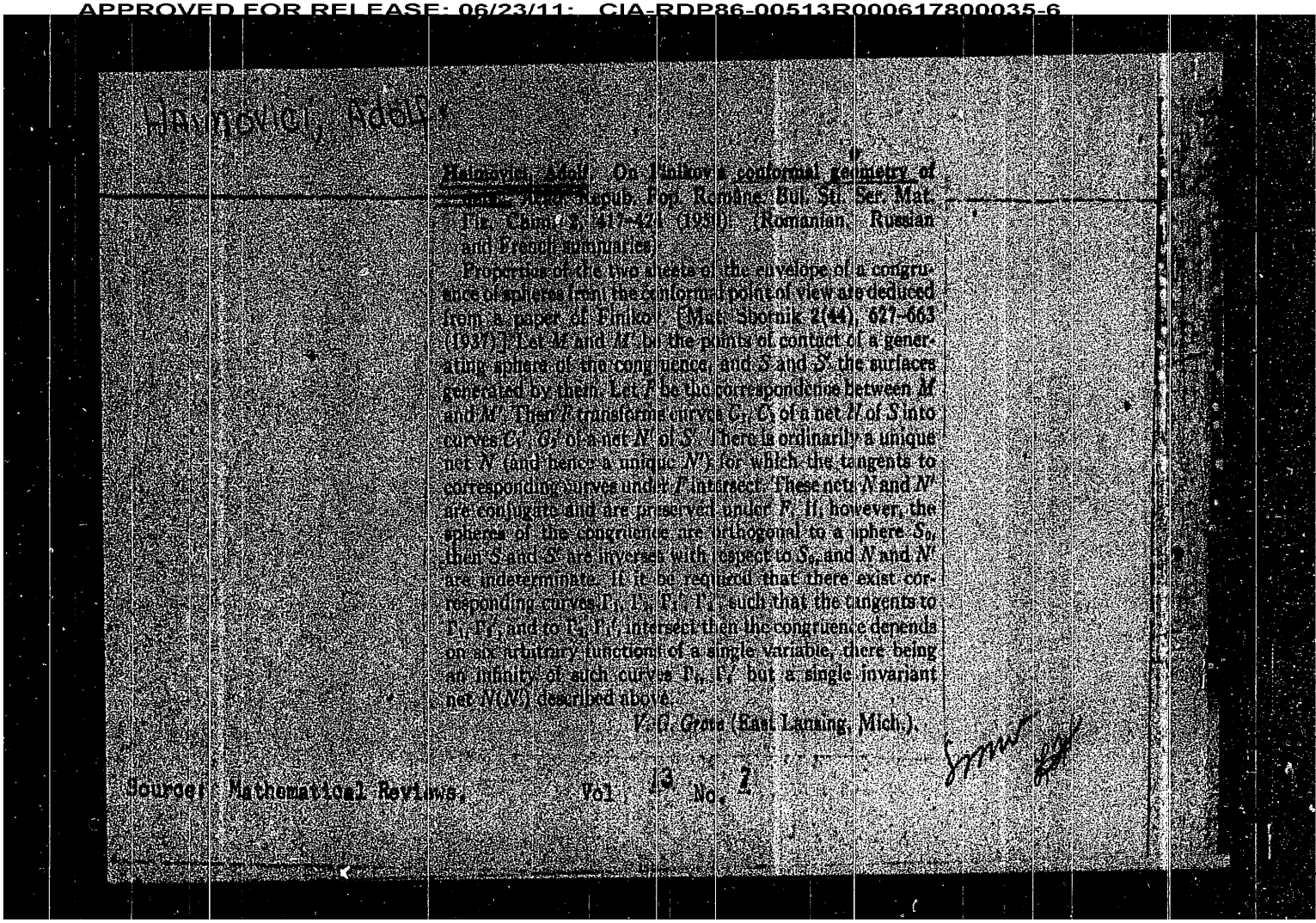
Haimovici, Ad.

Haimovici, Ad. Sur un système d'équations intégro-différentielles. Com. Acad. R. P. Romîne 1 (1951), 13-18. (Romanian. Russian and French summaries)

L'auteur étudie un système d'équations intégro-différentielles, dont certaines sont linéaires, généralisant des équations de biologie mathématique dont la théorie a été commencée par Volterra [Leçons sur la théorie mathématique de la lutte pour la vie, Gauthier-Villars, Paris, 1931]. On donne des résultats d'existence et unicité des solutions, obtenus par approximation, successive et on montre comment on peut préciser les limites pour $t \to +\infty$, lorsqu'on suppose qu'il y a des limites finies. *M. Brelot.*

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



Haimovici, Adolf

Haimovici, Adolf. On Finikov's conformal geometry of congruences. Acad. Rep. Popul. Romîne. Bul. Şti. Ser. Mat. Fiz. Chim. 2, 417–424 (1950). (Romanian, Russian and French summaries)

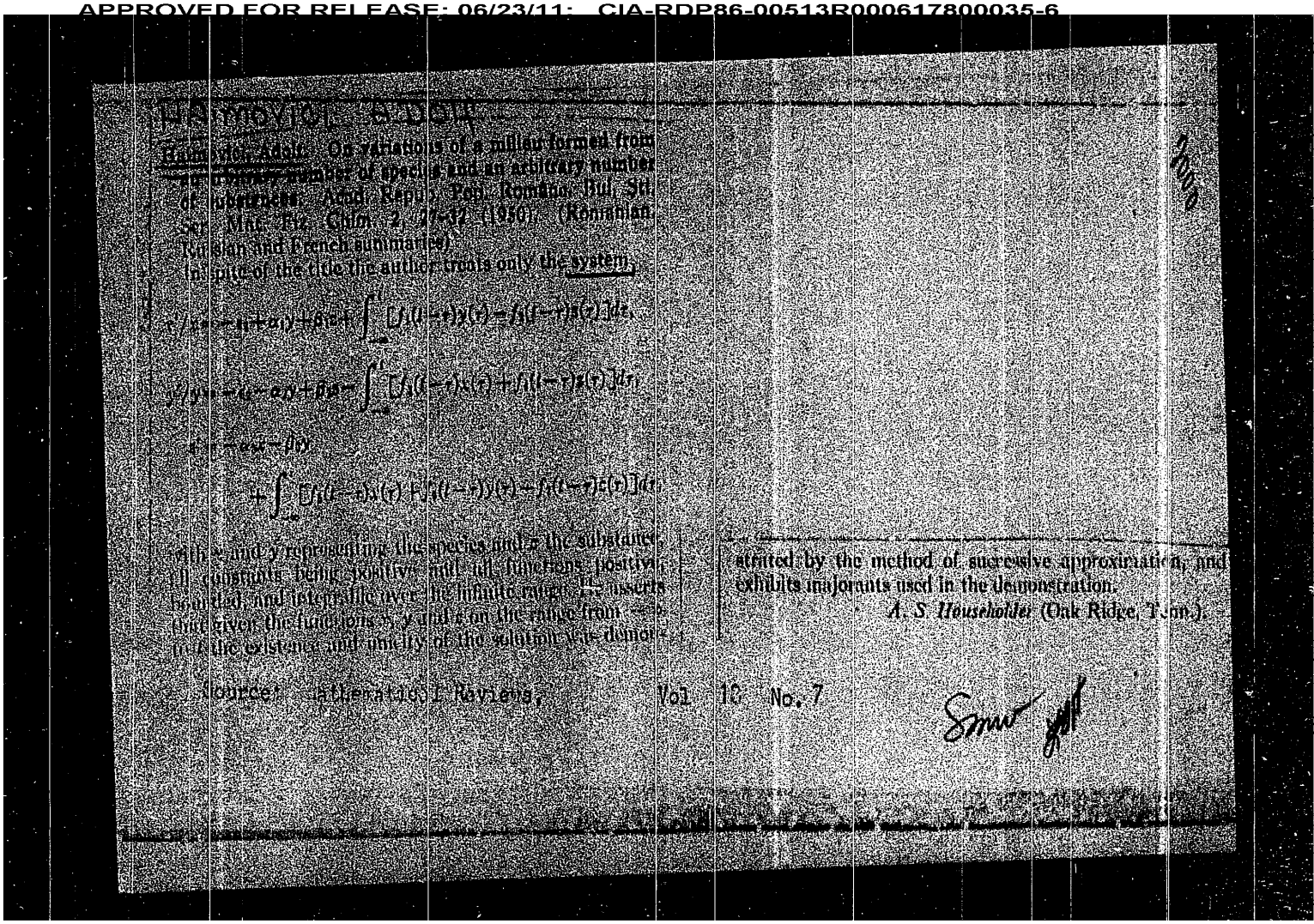
Properties of the two sheets of the envelope of a congruence of spheres from the conformal point of view are deduced from a paper of Finikov [Mat. Sbornik 2(44), 627–663 (1937)]. Let M and M' be the points of contact of a generating sphere of the congruence, and S and S' the surfaces generated by them. Let T be the correspondence between M and M'. Then T transforms curves C_1, C_2 of a net N of S into curves C_1', C_2' of a net N' of S'. There is ordinarily a unique net N (and hence a unique N') for which the tangents to corresponding curves under T intersect. These nets N and N' are conjugate and are preserved under T. If, however, the spheres of the congruence are orthogonal to a sphere S_0, then S and S' are inverses with respect to S_0, and N and N' are indeterminate. If it be required that there exist corresponding curves $\Gamma_1, \Gamma_2, \Gamma_1', \Gamma_2'$ such that the tangents to Γ_1, Γ_1' and to Γ_2, Γ_2' intersect then the congruence depends on six arbitrary functions of a single variable, there being an infinity of such curves Γ_1, Γ_2' but a single invariant net $N(N')$ described above.

V. G. Grove (East Lansing, Mich.).

Source: Mathematical Reviews, Vol. 13, No. 2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



Reviewed Author: Oprescu, Gh.

Title: On variations of a minor formed from a given number of species and an arbitrary number of arguments.

Publication Info: Acad. Repub. Pop. Romîne. Bul. Şti. Secţ. Mat.-Fiz. Chim. 2, 27-32 (1950). (Romanian. Russian and French summaries)

Review: In spite of the title the author treats only the system

$$dx/dt = \alpha x + \beta y + \gamma + \int_{-\infty}^{t} [f_1(t-\tau)x(\tau) + f_2(t-\tau)y(\tau)]\,d\tau,$$

$$dy/dt = \alpha' x + \beta' y + \gamma' + \int_{-\infty}^{t} [g_1(t-\tau)x(\tau) + g_2(t-\tau)y(\tau)]\,d\tau$$

$$x = \alpha x + \beta y + \int_{-\infty}^{t} [h_1(t-\tau)x(\tau) + h_2(t-\tau)y(\tau)]\,d\tau,$$

$$y = \alpha' x + \beta' y + \int_{-\infty}^{t} [k_1(t-\tau)x(\tau) + k_2(t-\tau)y(\tau)]\,d\tau,$$

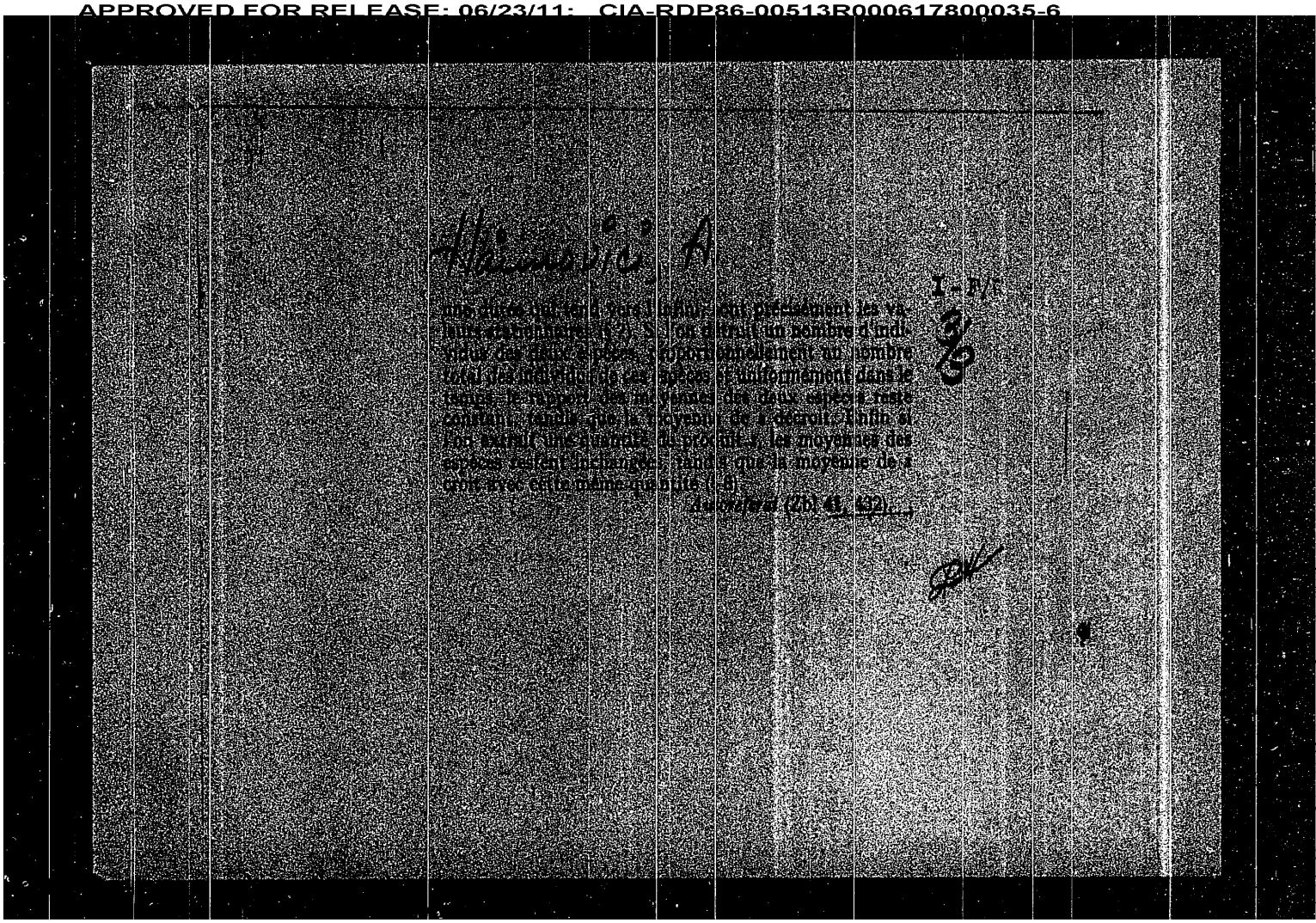
with x and y representing the species and t the substance; all constants being positive and all functions positive, bounded, and integrable over the infinite range. The assertion that given the functions x, y and t on the range from $-\infty$ to 0 the existence and unicity of the solution is demonstrated by the method of successive approximations, and exhibits majorants used in the demonstration.

A. S. Householder (Oak Ridge, Tenn.).

Source: Mathematical Reviews, Vol. 12, No. 7

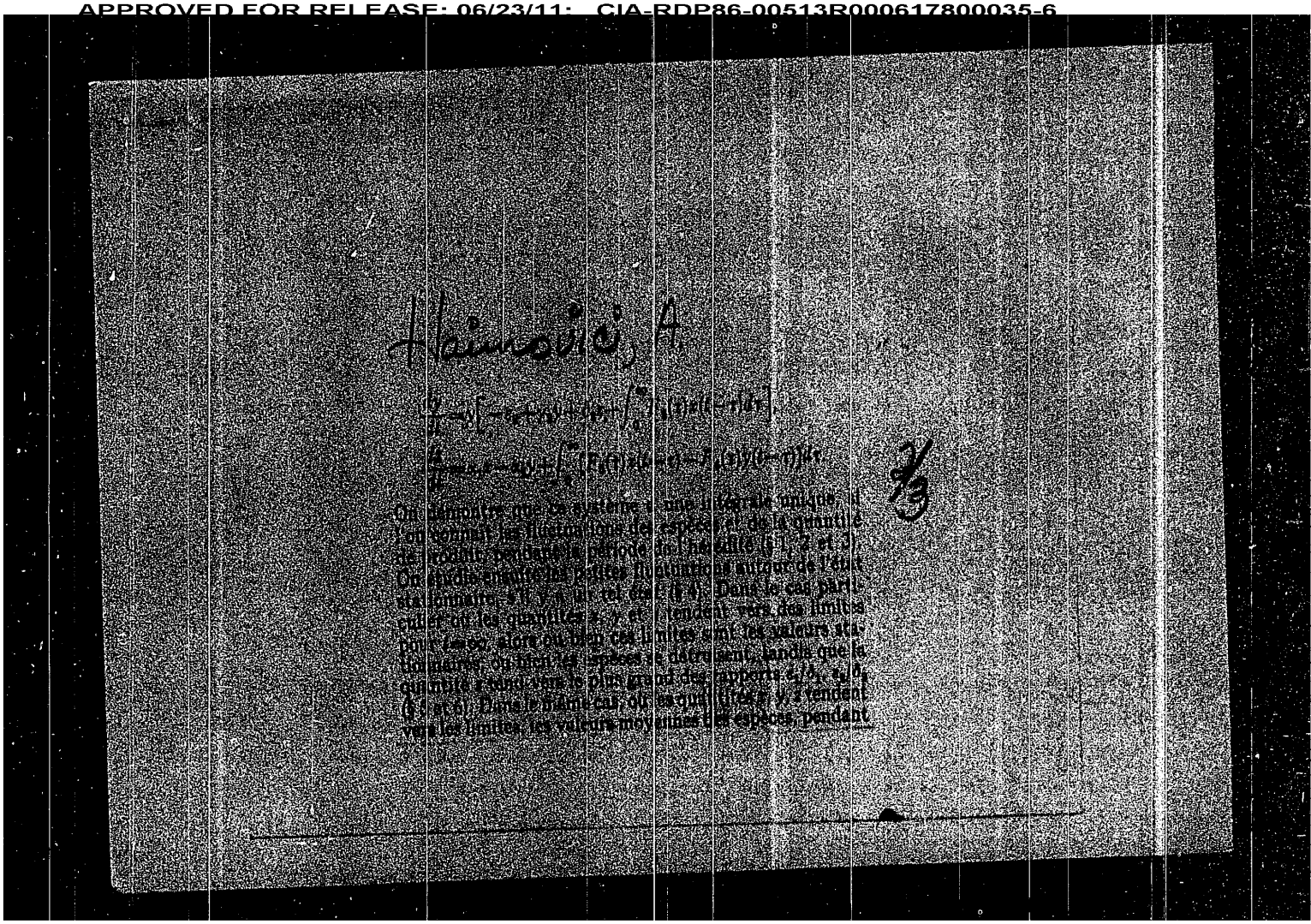
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



Annexe A

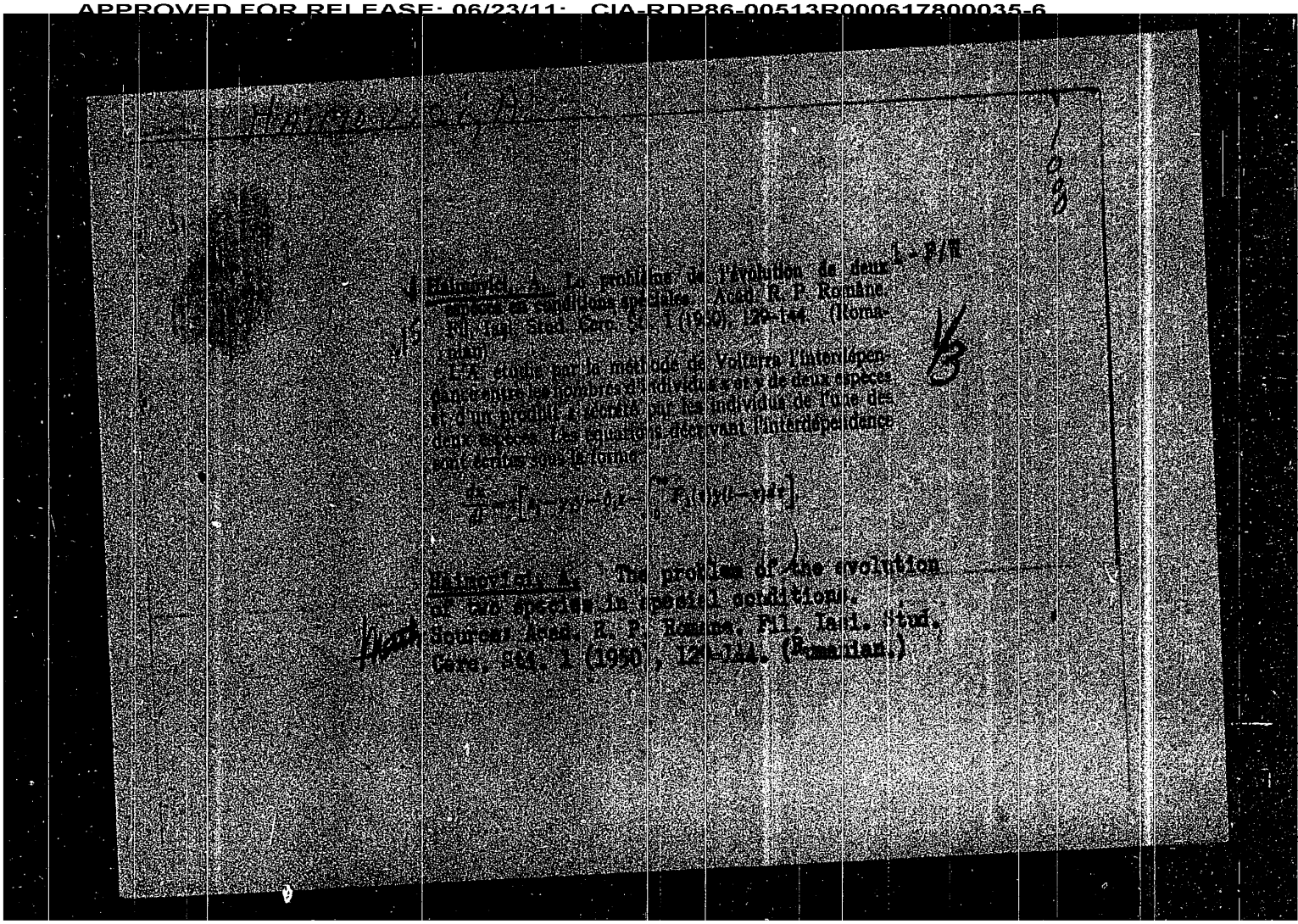
$$\frac{dx}{dt} = x[-\alpha_{11}x - \alpha_{12}y + \alpha_{13} - \int_0^\infty \gamma_1(\tau)x(t-\tau)d\tau]$$

$$\frac{dy}{dt} = y[-\alpha_{21}x - \alpha_{22}y + \alpha_{23} - \int_0^\infty \gamma_2(\tau)y(t-\tau)d\tau]$$

On démontre que le système à une intégrale unique, il
l'on connaît les fluctuations des espèces et de la quantité
de proies pendant la période de l'habituation (1, 2 et 3).
On étudie ensuite les petites fluctuations autour de l'état
stationnaire. Il y a un tel état ($\neq 0$). Dans le cas parti-
culier où les quantités x, y et tendent vers des limites
pour $t \to \infty$, alors ou bien ces limites sont les valeurs sta-
tionnaires, ou bien les espèces se détruisent, tandis que la
quantité x tend vers le plus grand des rapports α_{13}/α_{11} et
α_{23}/α_{21}. Dans le même cas, où les quantités x, y tendent
vers les limites, les valeurs moyennes des espèces pendant

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



Kalmykova, A. The problem of the evolution of two species in special conditions. Acad. R. P. Romîne. Fil. Ist. Stud. Cerc. St. 1 (1950), 129-144. (Roma-nian)

[illegible] studies by the method of Volterra the interdependence between the numbers of individuals of two species, of which one preys on the individuals of the other species. The equations describing the interdependence are written in the form

$$\frac{dx}{dt} = x[A - By - Cx - Dz], \quad \frac{dy}{dt} = y[E - Fx - Gy - Hz],$$

Kalmykova, A. The problem of the evolution of two species in special conditions. Acad. R. P. Romîne. Fil. Ist. Stud. Cerc. St. 1 (1950), 129-144. (Roma-nian)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOVICI, ADOLF

Mathematical Reviews
Vol. 14 No. 11
December, 1953
Geometry.

11-13-54
LL

Haimovici, Adolf. On some asymptotic transformations. Acad. Repub. Pop. Române. Bul. Şti. A. 1, 847–85 (1949). (Romanian. Russian and French summaries)

This is a study by the method of E. Cartan of transformations of surfaces which preserve asymptotic lines. Typical results are the following. A surface in asymptotic correspondence with a given surface preserving total curvature depends on four arbitrary functions of one variable. There is but one pair of surfaces in asymptotic correspondence which pass through two given curves tangent to the developables of these curves and having equal principal curvatures at corresponding points. *J. L. Vanderslice.*

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

Source: Mathematical Reviews, Vol 13 No. 8

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

PA 21T43

Haimovici, Adolf

RUMANIA/Mathematics - Geometry, Differential
Mathematics - Surfaces Jul/Dec 1946

"On a Certain Deformation of the Spherical Congruences," Adolf Haimovici, 17 pp

"Bul Politehnicii 'Gh Asachi' din Iasi" Vol 1, No 2

Discussion of the theorems of Peterson and Cartan, in connection with the conservation of the angle between two tangent planes on corresponding spheres in Euclidean space.

21T43

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HARMONIC, J.D.C.

Harmonic, Adolf. Sur la géométrie d'un groupe de contact. C. R. Acad. Sci. Paris 217, 20 (1943). 101–102 (1943).

The author studies the geometry of the four-parameter group of contact transformations of linear elements in the plane consisting of Euclidean motions and dilatations. A dilatation is a contact transformation whereby each linear element is displaced through a constant direction parallel to itself. This is a subgroup of the six-parameter group, the whirlmotion group G_6, consisting of motions and whirls which has been studied extensively by Kasner and De Cicco. [See Kasner, Amer. J. Math. 33, 191–202 (1911); De Cicco, Trans. Amer. Math. Soc. 46, 348–361 (1939); 47, 207–228 (1940); these Rev. 1, 84, 170.] The differential invariants of a series of linear elements under this four-parameter group are found. It is shown that the only differential invariant of a curve is $dR/d\phi$, where R is the radius of curvature and ϕ is the angle that the tangent to the curve makes with a fixed direction.

The author also develops the geometry of the seven-parameter group of contact transformations of surface elements in space consisting of Euclidean motions and planar dilatations. Another proof is given of the theorem that the ratio of the curvature and torsion of the edge of regression of a developable surface is invariant under dilatations. Finally the author obtains the differential invariants of double series of elements consisting of ∞^2 surface elements under this seven-parameter group.

J. De Cicco.

Source: Mathematical Reviews, Vol. 3 No. 9

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

MOLLOV, N.; HAIMOVA, M.; TSCHERNEVA, N.; PECHCHANGOVA, N.; OGNJANOV, I.; PANOV, P.

On alkaloids of Aconitum ranunculeafolium. Dokl. Bolg. akad. nauk 17 no.1:251-254 '64.

1. Vorgelegt von B. Kurtev, korr. Mitglied der Akademie.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

RYZHKOV, O.A.; HAIMOV, R.N.; ZUYEV, Yu.N.

New data on the gas potential of the Paleozoic sediments of the Samarkand megasyncline. Neftegaz.geol. i geofiz. no. 12:3-5 '63. (MIRA 17:5)

1. Institut geologii i razrabotki neftyanykh i gazovykh mestorozhdeniy AN UzSSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMOS, I.

96. Preparation of products rich in glucose and fructose from sugar syrup - I. Haimos. (*Cukoripari Kutatóintézet Közleményei* - Vol. I, 1964, No. 3, pp. 155--159, 5 figs.)

A process was developed for the preparation of a solid product with a high glucose and a low fructose content and of a syrup with a high fructose and low glucose content using the equipment and chemicals of the sugar refining plant. The principle of the procedure is the elimination of an essential part of the fructose from totally inverted sugar juice by the use of slaked lime. After filtration and saturation the liquor enriched in glucose was concentrated. The precipitation containing calcium fructosate, calcium carbonate and excess lime was suspended in water, saturated, and finally concentrated yielding a syrup rich in fructose. The product with a high glucose content is useful as nutrient or as medicament for persons suffering from heart ailments and the product rich in fructose for diabetics.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIMAN, GY.

New ways of typesetting. p. 664. Vol 114, no. 11, Nov. 1955. [illegible] TA[illegible]-ADALOM. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

ILLEGIBLE

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

LUKACS, Sandor, dr. (Budapest); HAIM, Tibor, dr.

"Defect" in the wall of the spaceship. Term tud kozl 4 no. 6:245-246 Je '60.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIM, M.

"Take-off of jet-propelled gliders," Narodna Krila, Geograd, Vol [illegible], No 3, May/June 1953, p. 37.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIM, Jovan, Pukovnik dr.; DURIC, Gragomir, potpukovnik dr.;
ALEKSIC, Miodrag, potpukovnik dr.

Venereal diseases. Voj. san. pregl., Beogr. 13 no.
1-2:82-87 Jan-Feb 56.

1. Poliklinika VMA.
(VENEREAL DISEASES, epidemiology,
in Yugosl. army (Ser))
(ARMED FORCES PERSONNEL, diseases,
venereal dis. in Yugosl. (Ser))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIM, Jovan

HAIM, Jovan, pukovnik, dr.

Allergodermia. Voj. san. pregl., Beogr. 11 no.3-4:122-125 Mar-Apr 54.

1. Poliklinika VMA Dermatoloski kabinet.

(SKIN, dis. *allergy) (ALLERGY, manifest. *skin reactions)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

RUMANI/Atomic and Molecular Physics - Polymers and Their Reactions D-11

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 5572

Author : Haim E.
Inst :
Title : Kinetic Theory of the Elasticity of Rubber. Elasticity of the Molecular Lattice

Orig Pub : Ind. usoara, 1958, 5, No 5, 177-185

Abstract : Survey. Bibliography, 22 titles

Card : 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIM, S.

Kinetic theories of rubber elasticity. I. Flexibility of linear-chain macromolecules.

P. 171 (REVISTA DE CHIMIE.) (Bucuresti, Rumania) Vol. 9, No. 3, Mar. 1958

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 7, 1958

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

RUMANIA/Chemical Technology, Chemical Products and Their Application, Part 4. - Natural and Synthetic Caoutchouc, Rubber. H-31

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34522.

Author : E. Haim.
Inst : Not given.
Title : Experimental Studies of Rubber Elasticity.

Orig Pub: Ind. usoara, 1957, 4, No 4, 165-172.

Abstract: Review. Bibliography with 8 titles.

Card : 1/1

16

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

Haim, E.

Distr: 4E2c(j)

Thermodynamics of the elasticity of rubber in the light of the work of G. M. Barteney. E. Haim. *Ind. uşoară* (Bucharest) 3, 321–30(1950); cf. *C.A.* ~~43, 1080c~~.—While the elasticity of cryst. materials is based on the variation of their internal energy, the superelasticity of rubber is due in part also to the variation of the entropy. The thermodynamic relation considered is valid only for the equil. case, which is invariable with respect to time; thus, the effects of the relaxation of tension must be disregarded. Crystn. of the amorphous material must also be excluded from consideration. The special character of the elongation of rubber is caused by its fibrous macromol. structure. P. Kertesz.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIM, E.

Rumania/Atomic and Molecular Physics - Physics of High Molecular Substances, D-9

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34520

Author: Haim, E.

Institution: None

Title: Geometry of High Polymers

Original Periodical: Rev. chim., 1956, No 4, 206-213; Rumanian; Russian and German resumés

Abstract: The shape of filament-like polymers is studied. After examining the free rotation, the basic Ayring equation is cited. Next, the restricted rotation is examined, after which the basic relationships are refined and the concept of the potential barrier is introduced. Particular significance is attributed to the work by M. V. Vol'kenshteyn who explained the features of the internal dynamics of macromolecules by introducing the concept of "rotary isomers."

1 of 1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

BUDUESCU, M., ing. tehnolog; ABRAMOVICI, J., ing. tehnolog; HALM, E., ing. tehnolog; STREIT, E., ing. mecanic; IONESCU, I., arh.

Complex planning and designing helping a systematic introduction of new technics in the rubber industry. Industria usoara 3 no.10:416-420 O '56.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

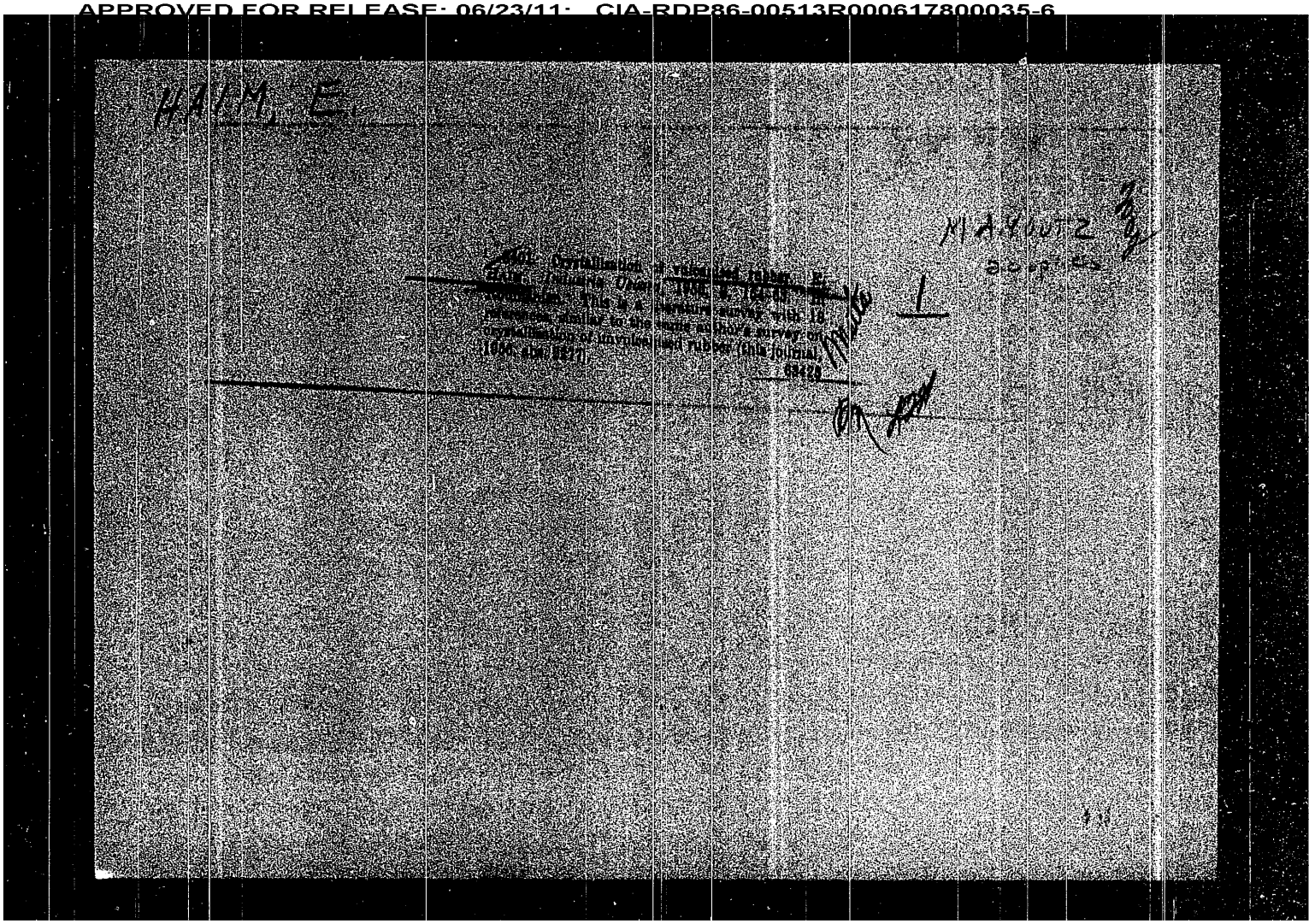
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIM, E., ing.

Thermodynamics of rubber elasticity in the light of the works of G.M.Bartenev. Industria usoara 3 no.8:321-330 Ag '56.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

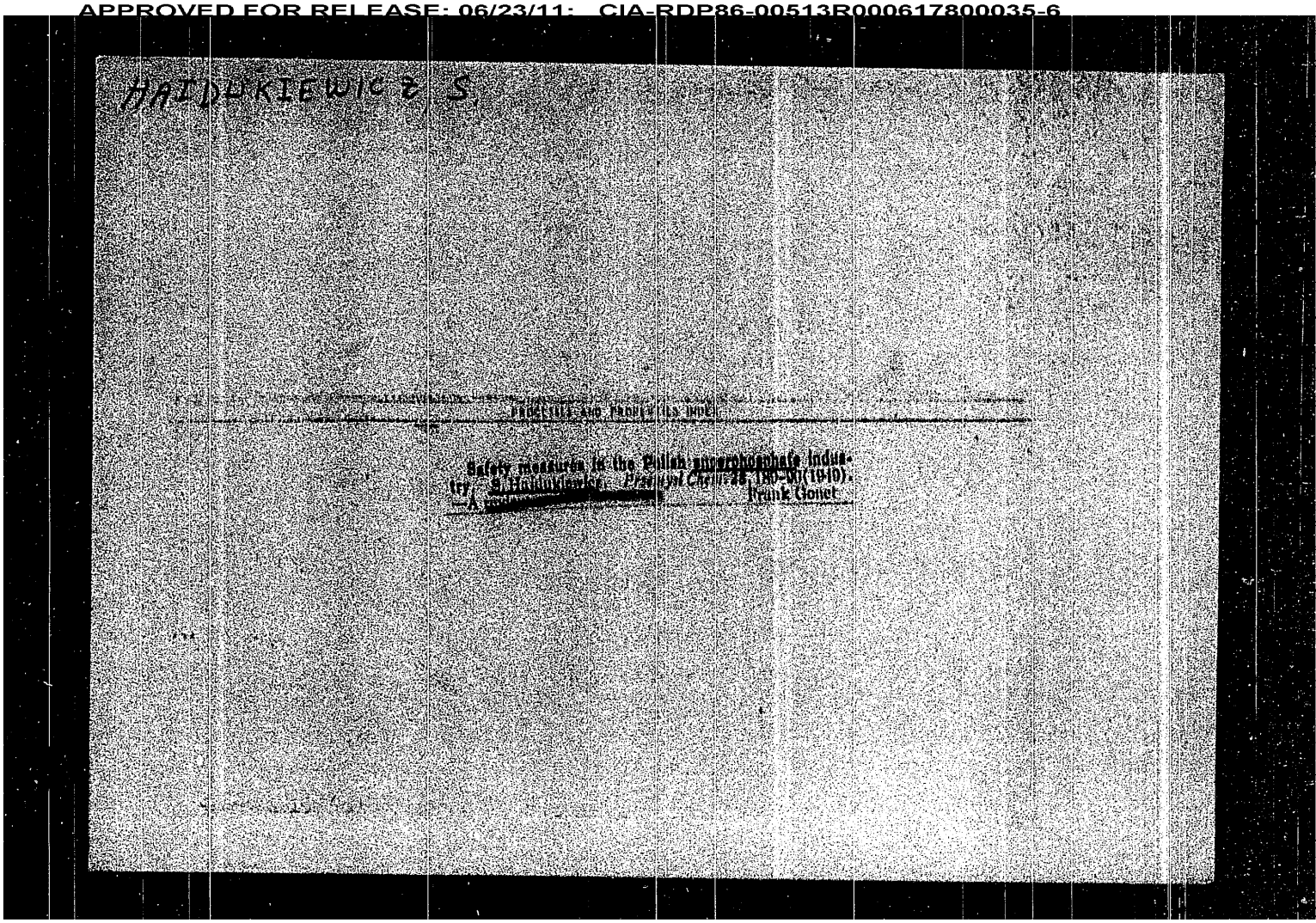
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIM, E., ing.

Crystallization of nonvulcanized rubber. Industria usoara 3 no.2:60-69 F '56.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

SOCOLESCU, M.; BONEA, Lidia; HAIDUC, P.

Contributions to the knowledge of the copper mineralization at the Pirul lui Avram, Muntii Apuseni. Rev min 14 no.9:393-402 S '63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

Polymeric Coordination Compounds

S/074/61/030/009/001/001
B117/B110

There are 23 figures, 7 tables, and 483 references: 62 Soviet-bloc and 421 non-Soviet-bloc. The four most recent references to the English-language publications read as follows: B. I. Intorre, A. E. Martell, J. Am. Chem. Soc., 82, 358 (1960); R. S. Tobias, J. Am. Chem. Soc., 82, 1070 (1960); D. B. Sowerby, L. F. Audrieth, J. Chem. Educ., 37, 2, 86, 134 (1960); E. Bannister, G. Wilkinson, Chem. & Ind., 1960, 319.

ASSOCIATION: Facultatea de Chimie, Universitatea "Babes - Bolyai", Cluj, R. R. Romînă (Chemical Division, University "Babes - Bolyai", Kluzh, Rumania)

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

of its development. The author proposes to investigate the structure of inorganic, potential polymeric compounds, and especially of the compounds of transition metals by using the roentgenography, the electron diffraction method, the spectral analysis and other physical methods. Another problem to be dealt with is the determination of molecular weight of inorganic compounds and of their organic derivatives under different conditions, particularly in inert solvents in which occurs coordinative association and (if possible) in the gas phase. The physical and chemical investigations of coordination polymers should deal with the mechanism and the kinetics of formation and decomposition, the equilibrium in solution, the determination of thermodynamic quantities and so on. The theoretic study of coordination polymers should deal with the nature of chemical bonds in these polymers and with their stereochemistry. The synthesis of new coordination polymers is to be investigated. Lastly, new practical possibilities for the application should be found. The coordination compounds can be used to produce materials with special properties, such as materials with high heat resistance, semiconductors, dielectrics, catalysts and many others. Following Soviet authors are mentioned: A. A. Berlin, V. P. Parini, P. A. Akishin, A. V. Novoselova, N. G. Matveyeva, V. V. Korshak, A. V. Slavvo, Ya. K. Syrkin.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

S/074/61/030/009/001/001
B117/B110

AUTHOR: Khayduk, I. (Rumania)

TITLE: Polymeric Coordination Compounds

PERIODICAL: Uspekhi khimii, v. 30, no. 9, 1961, 1124 - 1174

TEXT: This is a literature discussion of polymeric coordination compounds, mostly consisting of western literature. The paper is divided into the following chapters: systematyz of inorganic polymers; low-molecular coordination polymers including cyclic coordination polymers with the coordination numbers 4, 6, 8 and polymer alkoxydes; high-molecular coordination polymers including polymeric complexes with the coordination numbers 2, 3, 6 and 4. The latter are subdivided into complexes with quadratic plane units and complexes with tetrahedral units; polymers having electron deficiency; chelate polymeric compounds; production of coordination polymers in aqueous solution and in liquid ammonia. Finally the author deals briefly with the perspectives and the problems to be investigated. The review of the existent literature shows, that the investigations in the field of the chemistry of polymer coordination compounds is at the beginning

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDUC, Ionel

Carborani, $B_nC_2H_{n+2}$, a new class of quasi aromatic compounds. Studii cerc chim 13 no.11:783-803 N '64.

1. Faculty of Chemistry, Cluj University, 11 Arany Janos Street.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

KHAYDUK, Ionel [Haiduc, I.]

Systematic classification of inorganic cyclic compounds. Zhur. strukt.khim. 2 no.3:374-382 My-Je '61. (MIRA 15:1)

1. Universitet imeni Babesh-Bolyay, g. Kluzh, Rumynskaya Narodnaya Respublika.

(Chemistry, Inorganic--Classification)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDUC, I.

Distr: 4E2c(j)

Probable structure of silicodiimide, SiN_2H_2. Ionel Haiduc (Univ. "V. Babes", Cluj, Romania). *Bull. soc. chim. France* 1960, 489–90.—A new 2-dimensional polycyclic structure is proposed for the polymer $(SiN_2H_2)_x$. This new structure is based on the cycle: Si.NH.Si.NH.Si.NH.Si.NH (I). This structure seems more probable than $\left[\begin{matrix}Si{:}N\\ |\\ NH_2\end{matrix}\right]$ (II). Si does not tend to form a double bond with N, and it normally has 4 coördinate bonds. Structure I satisfies these characteristics. This structure also accounts easily for the thermal decompn. of SiN_2H_2 as well as its reaction with NH_3 and gaseous HCl. Geo. W. Schell

1-29 (W3)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

Haiduc, I.

Inorganic cyclic compounds. Note 4. On the electronic [illegible]. p. 169.

[illegible]. (Ministerul Industriei Petrolului si Chimiei si Asociatia Stiintifica a Inginerilor si Tecnicienilor din Romania) Bucuresti, Romania. Vol. 10, no. 3, Mar. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 7, no. 8, Aug. 1959

Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

KHAYDUK, K. [Haiduc, C.]

Method for determining the optimum parameters for steam reheat in combined Atomic Power Station with water pre-superheat. Trans. from elektrotekhn. energet 9 no.3:423-438 '64

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

ROMANIA

MAIDUC, C.

Bucharest, Revue d'Electrotechnique et d'Energétique, No 1. Série -, 1963, pp 53-70

"Combined Nuclear Power Plants and their Thermal Efficiency."

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

S/283/63/000/002/001/001
A059/A126

AUTHORS: Grecov, D., Haiduc, C.

TITLE: The calculation of the heating temperature of feeding water in double-circuit systems at nuclear electric power stations

PERIODICAL: Referativnyy zhurnal, Yadernyye reaktory, no. 2, 1963, 10, abstract 2.50.35 (Studii şi cercetari energ. Acad. RPR, 1961, v. 11, no. 4, 627 - 637, Roumanian; summaries in Russian and French)

TEXT: Formulas are given for calculating the optimum temperature to which feed water in double-circuit systems should be heated for nuclear reactors with a thermal efficiency of 400 Mw. The application of the formulas permits of avoiding complex calculations and to find the region of the optimum heating temperature with sufficient accuracy by way of determining the influence of various factors of the thermal system on the parameter examined. There are 2 figures and 5 references.

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

S/262/62/000/015/002/011
I007/1207

AUTHORS: Grecov, D., Haiduc, C. and Soci, A.

TITLE: Determination of coolant optimum-temperature at the inlet into the nuclear power reactor

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 15, 1962, 14, abstract 42.15.60 (Studii şi cercetări energ. Acad. RPR, v. 11, no. 3, 1961, 455-467 [Rumanian])

TEXT: The dual-cycle system in which the primary coolant ensures heat removal, while the secondary coolant (water) is intended to carry the thermodynamic cycle of power generation, is widely used in nuclear power plants. Proceeding from theoretical considerations, the authors study the influence of the temperature t_1 of different primary coolants at the inlet into the nuclear reactor circuit, on the net efficiency of the power plant. As coolants CO_2, helium, polyphenil or water may be used. A formula is suggested for determining the optimum value of t_1. There are 5 figures and 4 references.

[Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

ANTONESCU, N.; COSTEA, L.; HAIDUC, C.

Aspects of the functioning of the one-ton-per-hour Viua I.E. industrial boiler with liquid fuel. Rev electrotechn energet 5 no.2:483-491 '60. (EEAI 10:5)

(Rumania--Steam boilers) (Liquid fuels)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDUC, C.

ANTONESKU, N. [Antonescu, N.]; KHAIDUK, K. [Haiduc, C.]; KOSTIA, L. [Costea, L.]

Some problems related to the study and construction of the Vuia one-ton industrial boiler. Rev electrotechn energet 5 no.1:167-178 '60. (EEAI 10:4)

(Rumania--Steam boilers)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEKKER, T.

The Mechanical Laboratory's VMG 5516-02 phonograph, p. 73, KEP ES HANGTECHNIKA, (Optikai es Kinotechnikai Tudomanyos Egyesulet) Budapest, Vol. 2, No. 3, June 1956

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 11, November 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

BINDER, L.; DUDAS, P.; HAIDEKKER, Juliet; SCHLAFFER, Elisabeth

The later fate of children with Staphylococcal pneumonia. Acta paediat. acad. sci. Hung. 2 no.2:155-157 '61.

1. Laszlo Hospital for Infectious Diseases, Budapest.
(STAPHYLOCOCCAL INFECTIONS in infancy and childhood)
(PNEUMONIA in inf and child)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

LOSONCZY, Gyorgy, dr.; HAIDEKKER, Julia, dr.; MILCH, Hedda, dr.

Staphylococcal epidemics in hospitals with cases of scarlatoid.
Orv.hetil. 101 no.51:1818-1821 18 D'60.

1. Fovarosi Laszlo korhaz es as Orszdgos Kozegeszsegug Intezet
(SCARLET FEVER diag)
(STAPHYLOCOCCAL INFECTIONS diag)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

STEINER, B.; PUTNOKY, G.; KOVACS, Clara; SZABON, J.; HAIDEKKER, Judith

Bacterial flora of the subglottis in samples taken in a closed system. The significance of potential pathogens. Acta paediat. acad. sci. Hung. 4 no.2:119-131 '63.

1. Department of Paediatrics (Director, Prof. B. Steiner), Laboratory (Director, Prof. G. Putnoky) and Department of Oto-rhino-laryngology (Director, Prof. L. Subjan), Postgraduate Medical School, Budapest.

(PHARYNX) (RESPIRATORY TRACT INFECTIONS)
(LARYNGOSCOPY) (BRONCHOSCOPY)
(BACTERIOLOGICAL TECHNICS) (ANTIBIOTICS)
(EQUIPMENT AND SUPPLIES) (PNEUMONIA)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

STEINER, Bela, dr.; PUTNOKY, Gyula, dr.; KOVACS, Klara, dr.; SZABON, József, dr.; HAIDEKKER, Judit, dr.

Examination of subglottic bacterial flora in a closed system. Orv.hetil. 105 no.1:21-25 5 J '64.

1. Orvostovabbkepzö Intezet, Gyermekosztaly, Laboratoriumi vizsgalatok Tanszeke, Orr-Fül-Gege Tanszek.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEKKER, J., Dr.

KORANYI, Gyorgy, Dr.; HAIDEKKER, Judit, Dr.

Skin sensitivity to insulin. Orv. hetil. 99 no.8-9:293 23 Feb - 2 Mar 58.

1. Az Orvostovabbkepzo Intezet (mb. igazgato: Barsony Jeno dr.) Gyermekosztalyanak (foorvos: Steiner Bela dr.) kozlemenye.

(DERMATITIS MEDICAMENTOSA, in inf. & child
insulin induced (Hun))
(INSULIN, inj. eff.
dermatitis in child (Hun))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEKKER, Ivan, oklevelés gépészmernok

Up-to-date bearing supports of propeller shafts. Jarmu mezo gep 11 no.11:431-437 N '64.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEGGER, G.

Interrupter-disconnecting switches of the MS and MSB type. p. 56.

VILLAMOSSAG. (Magyar Elektrotechnikai Egyesulet) Budapest, Hungary.
Vol. 7, no. 1/2, 1959.

Monthly list of East European Accessions (EEAI). LC. Vol. 8, no. 2, July 1959.
Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEGGER, G.

Encased installations with a high voltage. p. 282 The 1957 Electrotechnical General Assembly. p. 285 Vol. 49, No. 9 Sept. 1956 ELEKTROTECHIKA. Budapest, Hungary.

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1 January 1956.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

L 36900-66 EWP(j) RM

ACC NR: AP6027099 (N) SOURCE CODE: PO/0099/66/040/001/0037/0046

AUTHOR: Hahn, Witold E.; Korzeniowski, Czeslaw

ORG: Department of Inorganic Chemistry, University, Lodz (Katedra Chemii Organicznej Uniwersytetu)

TITLE: Use of the Mannich reaction in synthesis of heterocyclic compounds. VI. Derivatives and analogues of bicyclo-[4,3,1]-decane. 5. Synthesis and some reactions of 3,4-benzo-8-azobicyclo-[4,3,1]-decen-3-dione-2,5

SOURCE: Roczniki chemii - annales societatis chimicae polonorum, v. 40, no. 1, 1966, 37-46

TOPIC TAGS: heterocyclic base compound, amide, formaldehyde, hydrolysis, chemical reaction

ABSTRACT: 4,6-dicarbomethoxy-1,2-benzocyclohepten-1-dione-3,7 was condensed with formaldehyde and primary amines. The derivatives of 1,6-dicarbomethoxy-3,6-benzo-8-azabicyclo-[4,3,1]-decen-3-dione-2,5 obtained undergo ketonic hydrolysis when heated with acids, to corresponding derivatives of 3,4-benzo-8-azabicyclo-[4,3,1]-decen-3-dione-2,5. The authors thank Professor Jan Barta (University in [illegible] Mickiewicz, Poznan) for making possible the spectrophotometric measurements. The work was financed by the Central Pharmaceutical Industry "Polfa". Orig. art. has: 3 figures and 4 tables. [Based on authors' Eng. abst.] [JPRS: 35,397]

SUB CODE: 07 / SUBM DATE: 09Feb65 / ORIG REF: 002 / OTH REF: 005

Card 1/1 LS

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HODOSSY, Lajos; PETER, Istvan; HAIDEGGER, Erno

Furfuryl alcohol: a new Hungarian chemical product.
Magy kem lap 19 no. 4:196-199 Ap '64.

1. Department of Chemical Processes, Veszprem University of the Chemical Industry (for Hodossy).
2. Ministry of the Heavy Industry (for Haidegger).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEGGER, Erno; KRIZA, Daniel

Dealkylation of alkyl aromatic compounds. Magy kem lap 18 no.11:517-523 N '63.

1. Chemokomplex Kulkereskedelmi Vallalat (for Haidegger).
2. Nagynyomasu Kiserleti Intezet (for Kriza).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEGGER, Erno; HODOSSY, Lajos; KAROLYI, Jozsef; METZING, Jozsef

Realization of fatty alcohol manufacture in Hungary. Magy kem lap 17 no.6:247-252 Je '62.

1. Nagynyomasu Kiserleti Intezet (for Haidegger and Karolyi).
2. Peti Nitrogenmuvek (for Hodossy and Metzing).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

ILLEGIBLE

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

nitrous oxide production ...

Encl: 2/C

X

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEGGER, Erno

Industrial significance of the use of sorbite. Magy kem lap 16 no. 8: 351-355. Ag '61

1. Nagynyomasu Kiserleti Intezet.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

KAROLYI, Jozsef (Budapest XI, Gellert ter 3); HAIDEGGER, Erno (Budapest XI, Gallert ter 3); HODOSSY, Lajos (Budapest XI, Gallert ter 3)

Production of fatty alcohols by means of high-pressure catalytic hydrogenation. II. Acta chimica Hung 24 no.2:157-189 '60.

1. High Pressure Research Institute, Budapest.
(Alcohols) (Catalysts) (Hydrogenation) (Copper) (Zinc) (Glycerides) (Paraffins) (Manganese oxides)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6

HAIDEGGER, E.; KAROLYI, J.; ZALAI, A.

Production of fatty alcohols by means of high-pressure catalytic hydrogenation. p.23

ACTA CHIMICA. Budapest, Hungary. Vol. 19, no. 1, 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800035-6